

Amendments to the Claims:

The following listing of claims will replace all prior versions, and listings, of claims in the application:

1. (Currently Amended) A laser beam projector, comprising:
an optical head ~~of that projecting~~ projects a laser beam; and
a holding-turning mechanism ~~of that holds~~ holding and ~~turn~~ turning the optical head so as to turn the optical head in a direction perpendicular to a moving direction of the laser beam projector, the holding-turning mechanism being configured to be attached to a robot arm.
2. (Original) The laser beam projector according to claim 1, wherein the holding-turning mechanism holds the optical head so that the optical head is able to turn about an axis passing a center of gravity of the optical head.
3. (Currently Amended) The laser beam projector according to claim 1, wherein the holding-turning mechanism includes a first holding-turning unit ~~of that turn~~ turning the optical head in a direction perpendicular to a weld line and a second holding-turning unit ~~of that turn~~ turning the optical head in a direction of the weld line.
4. (Currently Amended) The laser beam projector according to claim 2, wherein the holding-turning mechanism includes a first holding-turning unit ~~of that turn~~ turning the optical head in a direction perpendicular to a weld line and a second holding-turning unit ~~of that turn~~ turning the optical head in a direction of the weld line.
5. (Currently Amended) The laser beam projector according to claim 1, wherein the holding-turning mechanism includes a turning link mechanism ~~of that transmit~~ transmitting a driving force to the optical head in order to turn the optical head.

6. (Currently Amended) The laser beam projector according to claim 2, wherein the holding-turning mechanism includes a turning link mechanism ~~of that~~ transmitting a driving force to the optical head in order to turn the optical head.

7. (Currently Amended) The laser beam projector according to claim 3, wherein the holding-turning mechanism includes a turning link mechanism ~~of that~~ transmitting a driving force to the optical head in order to turn the optical head.

8. (Currently Amended) The laser beam projector according to claim 4, wherein the holding-turning mechanism includes a turning link mechanism ~~of that~~ transmitting a driving force to the optical head in order to turn the optical head.

9. (Original) The laser beam projector according to claim 1, wherein the optical head emits a YAG laser beam.

10. (Currently Amended) A robot, comprising:
~~an a~~ robot arm; and
a laser beam projector attached to the robot arm, the laser beam projector including an optical head ~~of that~~ projecting a laser beam and a holding-turning mechanism ~~of holding that holds~~ and ~~turning~~ turns the optical head so as to turn the optical head in a direction perpendicular to a moving direction of the laser beam projector, the holding-turning mechanism being configured to be attached to the robot arm.

11. (Original) The robot according to claim 10, wherein the holding-turning mechanism holds the optical head so that the optical head is able to turn about an axis passing a center of gravity of the optical head.

12. (Currently Amended) The robot according to claim 10, wherein the holding-turning mechanism includes a first holding-turning unit ~~of turning that turns~~ the optical head in a direction perpendicular to a weld line and a second holding-turning unit ~~of turning that~~ turns the optical head in a direction of the weld line.

13. (Currently Amended) The robot according to claim 11, wherein the holding-turning mechanism includes a first holding-turning unit ~~of turning~~that turns the optical head in a direction perpendicular to a weld line and a second holding-turning unit ~~of turning~~that turns the optical head in a direction of the weld line.

14. (Currently Amended) The robot according to claim 10, wherein the holding-turning mechanism includes a turning link mechanism ~~of transmitting~~that transmits a driving force to the optical head in order to turn the optical head.

15. (Currently Amended) The robot according to claim 11, wherein the holding-turning mechanism includes a turning link mechanism ~~of transmitting~~that transmits a driving force to the optical head in order to turn the optical head.

16. (Currently Amended) The robot according to claim 12, wherein the holding-turning mechanism includes a turning link mechanism ~~of transmitting~~that transmits a driving force to the optical head in order to turn the optical head.

17. (Currently Amended) The robot according to claim 13, wherein the holding-turning mechanism includes a turning link mechanism ~~of transmitting~~that transmits a driving force to the optical head in order to turn the optical head.

18. (Original) The robot according to claim 10, wherein the optical head emits a YAG laser beam.

19. (New) The laser beam projector according to claim 1, wherein the holding-turning mechanism is configured to be attached to an extremity of the robot arm.

20. (New) The robot according to claim 10, wherein the holding-turning mechanism is configured to be attached to an extremity of the robot arm.